

DERWENT-ACC-NO: 1979-64894B

DERWENT-WEEK: 198243

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TITLE: Electrochemical finishing of metals with  
vibrating electrode with electrode gap and pressure  
regulated to uniform rate of change of relative resistance

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PATENT-ASSIGNEE: SEMASCHKO A P[SEMAI]

PRIORITY-DATA: 1978SU-2625801 (June 26, 1978) , 1978SU-2576306  
(February 1,  
1978) , 1978SU-2605519 (April 18, 1978) , 1979DE-2903873 (February 1,  
1979)

PATENT-FAMILY:

| PUB-NO              | PUB-DATE          | LANGUAGE |
|---------------------|-------------------|----------|
| DE <u>2903873</u> A | August 30, 1979   | DE       |
| FR 2416080 A        | October 5, 1979   | FR       |
| DE <u>2903873</u> C | May 6, 1982       | DE       |
| SU 828534 A         | April 23, 1982    | RU       |
| SU 891309 A         | December 25, 1981 | RU       |

APPLICATION-DATA:

| PUB-NO           | APPL-DESCRIPTOR | APPL-NO        |
|------------------|-----------------|----------------|
| APPL-DATE        |                 |                |
| DE 2903873A      | N/A             | 1979DE-2903873 |
| February 1, 1979 |                 |                |
| DE 2903873C      | N/A             | 1979DE-2903873 |
| February 1, 1979 |                 |                |

ABSTRACTED-PUB-NO: DE 2903873 A

BASIC-ABSTRACT:

Electrochemical treatment uses a forced oscillation of one of the electrodes which is synchronised with impulses of a synchronised voltage applied to the electrodes. The impulse of the voltage (U) is supplied also at that instant at which the electrodes are at their minimum gap (Smin), a change,

produced by  
cavitation in the electrolyte as the electrodes are moved apart, in a  
relative  
resistance of the electrode gap (S) which represents a ratio of a  
time change  
value of the resistance (R) of the electrode gap (S) to its value  
when the  
electrode gap is a minimum (Smin) is monitored, and the value of the  
electrode  
gap (S) and a pressure (P1) at the inlet to the gap are regulated  
while keeping  
constant the necessary change value in the relative resistance.  
Pref. the  
necessary change in the relative resistance of the electrode gap (S)  
is obtd.  
by periodic adjustment of the electrode gap. by remeasuring and  
storing the  
change value of the relative resistance at this gap on each occasion  
as an  
input and reference value. Used in precision finishing of metals and  
alloys by  
electrochemical processes. Method allows min. electrode gap to be  
maintained  
accurately.

TITLE-TERMS: ELECTROCHEMICAL FINISH METAL VIBRATION ELECTRODE GAP  
PRESSURE

REGULATE UNIFORM RATE CHANGE RELATIVE RESISTANCE

DERWENT-CLASS: M11 P56 X24

CPI-CODES: M11-H03;